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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,375	11/25/2003	Eusebio Di Cola	856063.757	8588
38106	7590 05/31/2005	•	EXAMINER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			HOANG, JOHNNY H	
701 FIFTH AVENUE, SUITE 6300 SEATTLE. WA 98104-7092			ART UNIT	PAPER NUMBER
			3747	
			DATE MAILED: 05/31/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Comments	10/722,375	DI COLA ET AL.	
Office Action Summary	Examiner	Art Unit	
7	Johnny H. Hoang	3747	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON.	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>25 M</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-38 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 25 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \boxtimes object drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119	• *		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies 	s have been received. s have been received in Applicative documents have been received in Received in PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)	 «П	(270)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/22/04. 	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:		

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DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Drawings

2. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the drawings are not clear. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means"

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and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the abstract is too long. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are replete with double recitations, terms that lack antecedent basis, and unclear language too numerous to mention in every instance. The following are several examples:

Claim 1, line 4, "the angular position" lacks antecedent basis.

Claim 1, line 6, "the cycle phase" lacks of antecedent basis.

Claim 1, line 8, "the injectors" lacks of antecedent basis.

Claim 1, line 9, "the desired injection profile" lacks of antecedent basis.

Claim 4, line 3, "the number of teeth of the phonic wheel" lacks of antecedent basis.

Claim 1, line 6, "the cycle phase" lacks of antecedent basis.

Claim 1, line 6, "the type" lacks of antecedent basis.

Claim 14, line 2, "the cycle phase" lacks of antecedent basis.

Claim 14, line 4, "the motor camshaft" lacks of antecedent basis.

Claim 1, line 6, "the cycle phase" lacks of antecedent basis.

Claim 23, line 1, "the angular position" lacks of antecedent basis.

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Claim 31, line 1, "the injection and/or ignition" lacks of antecedent basis.

The claims not specifically mentioned are indefinite since they depended from one of the above claims.

6. Claims 19, 20, 22, 28, 33, and 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are containing the structural table.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 1-18, 21, 23-27, 29, 31, 32, and 34-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Ponti (US 6,494,086 B1).

Regarding claim 1, the reference of Ponti discloses an internal combustion reciprocating engine for motor vehicle including the following subject matters: the electronic control unit (32) which controls the injectors must know the stroke of each cylinder to control injection of fuel and

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to control ignition in the predefined instants of each operating stroke (col. 1, lines 11-15) and the architecture comprising:

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a first module structured to process electric signals from which the angular position of the engine driving shaft can be obtained (Figs. 1-4; and col. 1, line 52 through col. 2, line 59);

a second module structured to process electric signals from which the cycle phase of the engine can be obtained (above discussions);

a third module structured to supply suitable signals for driving the injectors so as to actuate the desired injection profile stored inside the module (col. 1, line 52 through col. 2, line 5); and

a fourth module structured to enable the module and to receive signals from the first and second modules and from the fourth module itself (above discussions and col. 2, line 60 through col. 4, line 6).

Regarding claims 2-13, as discussed in claim 1.

Regarding claims 14-18, and 21, see the rejections of claims 1-13.

Regarding claims 23-27, 29, 31-32, and 34-37, see the rejections of claims 1-13.

Allowable Subject Matter

9. Claim 30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Johnny H. Hoang whose telephone number is (571) 272-4843. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (571) 272-4856.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH May 16, 2005

Johnny H. Hoang Examiner Art Unit 3747

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